CLAIMS

| 1 | 1. A method for efficiently parsing input data, comprising: |
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| 2 | receiving a data file; |
| 3 | retrieving a stored version of the data file and a template/token tree |
| 4 | corresponding to the data file, the tree including at least one static node; |
| 5 | comparing the stored version of the data file with the received data file to |
| 6 | identify non-matching content in the received data file; |
| 7 | parsing only the non-matching content to form subtrees; |
| 8 | creating a mapping from the template/token tree to the subtrees. |
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| 1 | 2. The method of claim 1 wherein the step of creating the mapping from the tree |
| 2 | to the subtrees further comprises: |
| 3 | replacing at least one static node of the template/token tree with a token; and |
| 4 | creating a mapping from each token to at least one subtree. |
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| 1 | 3. The method of claim 1 wherein creating the mapping from the tree to the |
| 2 | subtrees further comprises: |
| 3 | adding at least one token node to the template/token tree; and |
| 4 | creating a mapping from each token to at least one subtree. |
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| 1 | 4. The method of claim 1 wherein the data file is a web page. |
| 1 | 5. The method of claim 1 wherein the data file is an HTML file. |
| | (A well of the efficiently married and comparising) |
| 1 | 6. A method for efficiently parsing web pages, comprising: |
| 2 | receiving a first HTML page: |

| 3 | retrieving a cached version of the HTML page and a template/token tree |
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| 4 | corresponding to the first HTML page, the tree including at least one static |
| 5 | node; |
| 6 | comparing the cached version of the HTML page with the received HTML page |
| 7 | to identify non-matching content in the received HTML page; |
| 8 | parsing only the non-matching content to form at least one subtree; |
| 9 | creating a mapping from the template/token tree to the subtrees. |
| 1 | 7. The method of claim 6 wherein creating the mapping from the tree to the |
| 2 | subtrees further comprises: |
| 3 | replacing at least one static node of the template/token tree with a token; and |
| 4 | creating a mapping from each token to at least one subtree. |
| 1 | 8. A method for efficiently parsing HTML pages, comprising: |
| 2 | receiving a first HTML page; |
| 3 | responsive to a determination that a cached version of the HTML page exists: |
| 4 | retrieving the cached version of the HTML page and a first |
| 5 | template/token tree corresponding to the first HTML page, the |
| 6 | first tree including at least one static node; |
| 7 | comparing the cached version of the first HTML page with the |
| 8 | received HTML page to identify non-matching content; |
| 9 | parsing only the non-matching content to form a subtree; |
| 10 | associating the first tree and the subtree; |
| 11 | responsive to a determination that the cached version of the HTML page does |
| 12 | not exist: |
| 13 | parsing the received HTML page to form a second template/token |
| 14 | tree, the second tree containing at least one static node; and |

| 15 | storing the second tree and the received HTML page. |
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| 1 | 9. A method for providing derivative services comprising: |
| 2 | receiving a first HTML page; |
| 3 | constructing a template/token tree from the received HTML page, the tree |
| 4 | comprising a plurality of nodes; |
| 5 | determining that at least one node of the tree contains static content; |
| 6 | determining that at least one node of the tree contains dynamic content; |
| 7 | replacing the nodes of the tree containing dynamic content with tokens; |
| 8 | parsing the dynamic content to form subtrees; and |
| 9 | mapping the tokens to the subtrees. |
| 1 | 10. A method of providing derivative services, comprising: |
| 2 | receiving a request for derivative services content from a customer; |
| 3 | retrieving data from a plurality of primary service providers on behalf of the |
| 4 | customer, by: |
| 5 | identifying static content that has been previously retrieved from the |
| 6 | primary service providers and stored, and corresponding |
| 7 | template/token trees that have also been stored; |
| 8 | identifying dynamic content that differs from the previously retrieved |
| 9 | content; |
| 10 | parsing the dynamic content to form subtrees; |
| 11 | adding tokens to the template/token trees; |
| 12 | mapping the tokens to the subtrees; |
| 13 | creating at least one content page comprising the retrieved data; and |
| 11 | providing the created pages to the customer |

| 1 | 11. A method for efficiently parsing input data, comprising. |
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| 2 | receiving a first data file; |
| 3 | retrieving a stored template/token tree, the stored template/token tree having |
| 4 | content associated with the first data file and containing at least one static |
| 5 | node and at least one token; |
| 6 | retrieving a second data file, the second data file associated with the first data |
| 7 | file; |
| 8 | identifying non-matching content present only in the first data file; |
| 9 | parsing only the non-matching content of the first data file to form at least one |
| 10 | subtree; and |
| 11 | mapping at least one of the tokens to at least one of the subtrees. |
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| 1 | 12. The method of claim 11, further comprising: |
| 2 | responsive to identifying non-matching content present only in the first file: |
| 3 | adding at least one new token to the template/token tree. |
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| 1 | 13. A system for efficiently parsing input data, comprising: |
| 2 | at least one virtual browser for retrieving content from primary content servers; |
| 3 | an identification engine, communicatively coupled to the virtual browser for |
| 4 | identifying retrieved content; |
| 5 | a cache, communicatively coupled to the virtual browser and the parsing engine |
| 6 | for storing retrieved content and template/token trees; |
| 7 | a comparison engine, coupled to the virtual browser for comparing retrieved |
| 8 | content with stored content to identify differing content not stored in the |
| 9 | cache; |

| 10 | a parsing engine, communicatively coupled to the virtual browser, for parsing |
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| 11 | content identified by the comparison engine as differing content and forming |
| 12 | subtrees from the content; and |
| 13 | a content server, coupled to the virtual browser. |

1 14. The system of claim 13, further comprising a token master, coupled to the cache, for allocating new tokens to the virtual browser.